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Please find below and/or attached an Office communication concerning this application or proceeding.

	<del></del>	Applicati	on No.	Applicant(s)			
Office Action Summary		10/038,8	14	SHAH ET AL.			
		Examine		Art Unit			
		Justin I. K	-	2111			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE MAII  - Extensions after SIX (the perions of the perions)  - If the perions of the perions o	FENED STATUTORY PERIOD FOR I LING DATE OF THIS COMMUNICAT of time may be available under the provisions of 37 3) MONTHS from the mailing date of this communica of for reply specified above is less than thirty (30) day of for reply is specified above, the maximum statutory reply within the set or extended period for reply will, b received by the Office later than three months after the ent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no evition. s, a reply within the state period will apply and wystatute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) daysill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).	ly. communication.		
Status							
1)⊠ Res	sponsive to communication(s) filed or	<u>11/12/04</u> .					
2a)∏ Thi	s action is <b>FINAL</b> . 2b)	2b)⊠ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition (	of Claims						
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	4) ⊠ Claim(s) <u>1-38</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-38</u> is/are rejected.						
Application I	Papers						
10)⊠ The App Rep	specification is objected to by the Ex drawing(s) filed on 31 December 200 dicant may not request that any objection placement drawing sheet(s) including the oath or declaration is objected to by	<u>01</u> is/are: a)  ato the drawing(s) to the drawing(s) to	ne held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).		
Priority unde	er 35 U.S.C. § 119						
12) Acki a) Acki a) A 1. 2. 2. 3.	nowledgment is made of a claim for for lile b) Some * c) None of:  Certified copies of the priority documents.	uments have bee uments have bee e priority documo Bureau (PCT Rul	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National	Stage		
2) Notice of [3] Informatio	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-9 n Disclosure Statement(s) (PTO-1449 or PTO/ s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	O-152)		

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#### **DETAILED ACTION**

### Response to Amendment

1. Examiner notes that the amendment for paragraph 0021 (Amendment, pages 7-8, 11/22/04) appears to be supported by the claims 12-14 as originally presented.

#### Specification

2. The abstract of the disclosure is objected to. The amended paragraph 0021, line 5 on Remark, page 7 states "which may any number of channels". Applicant may have meant "which may be any number of channels". Correction is required. See MPEP § 608.01(b).

#### **Drawings**

- 3. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the plurality of processors in claim 31 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Hausauer (U.S. Patent No. 6,138,192)

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Referring to claims 1, 21, and 26: Hausauer discloses a child link (figure 1, link between structures 18 and 20), and Hausauer's physical wire to establish the child link (the PCI connections) is the transaction identifier communication link. Hausauer further discloses a plurality of transaction order queues (column 4, lines 29-31). Hence, claim is anticipated by Hausauer.

Referring to claim 2: Hausauer's transaction identifier communication link comprises the child link.

Referring to claim 3: Hausauer discloses the transaction buffer (figure 5).

7. Claims 12-13 and 15-30 are rejected under 35 U.S.C. 102(a) as being anticipated by the admitted prior art.

Referring to claim 12: The prior art discloses a plurality of grandchild-links (figure 1, structures 162 and 164) for receiving a plurality of transactions; a child-link (figure 1, structure 152) for sending the plurality of transactions received by the plurality of grandchild-links; and the hardware physically connecting the level 2 bridge and the level 1 bridge is the claimed transaction identifier communication link (figure 1, structure 152) for sending a plurality of transaction identifiers associated with the plurality of transactions sent on the child-link. The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier. Hence, the claim is anticipated by the prior art.

Referring to claim 13: The hardware physically connecting the prior art's bridges and buses is the claimed transaction identifier communication link, which comprises the child-link.

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Referring to claim 15: The prior art discloses a plurality of transaction buffers (figure 1, structures 180 and 182) for the child-link and for storing the transaction. Since the prior art discloses a one-to-one relationship between the buffer and transaction order queue (Application, page 3, line 1), and the transaction order queue stores the identifiers, therefore, the prior art discloses matching the transaction identifier to a transaction buffer of the plurality of transaction buffers for the child link.

Referring to claim 16: The prior art discloses two separate grandchild links (figure 1, structure 162 and 164) connecting with a plurality of devices (figure 1, structures 12A-F). Thus, when each device under each grandchild link starts an upstream transaction, each one in the plurality of links is associated with at least two different transaction identifiers from two different devices attaching to it.

Referring to claim 17: The prior art discloses two separate grandchild links (figure 1, structure 162 and 164) connecting with a plurality of devices (figure 1, structures 12A-F). Thus, when one device under one grandchild link designates a transaction to another device under another grandchild link, the same transaction identifier is associated with both grandchild links.

Referring to claim 18: The prior art discloses that the grandchild-link connects to a bus (figure 1, structures 122 and 124).

Referring to claim 19: The prior art discloses that the grandchild-link is connected to a bus-bridge (figure 1, structure 139).

Referring to claim 20: The prior art discloses that the bridge-bridge is a known practice (Application, page 1, paragraph 003, line 3, figure 1, structure 149 as a bridge-bridge).

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Referring to claim 21: The prior art discloses receiving a transaction on the child-link (figure 1, structure 152). The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier; thus, the prior art discloses receiving a transaction identifier for the transaction link. The admitted prior art further discloses matching the transaction identifier to a transaction order queue of the plurality of transaction order queues (Application, page 3, line 1, one-to-one relationship, figure 1, structures 142 and 144) for the child-link; and routing the transaction (Application, page 1, paragraph 003, lines 1-3). Hence, claim is anticipated by the admitted prior art.

Referring to claim 22: The prior art discloses a transaction buffer for the child-link, further comprising the step of storing the transaction in the transaction buffer (figure 1, structure 180).

Referring to claim 23: The prior art discloses a plurality of transaction buffers (figure 1, structures 180 and 182) for the child-link and for storing the transaction. Since the prior art discloses a one-to-one relationship between the buffer and transaction order queue (Application, page 3, line 1), and the transaction order queue stores the identifiers, therefore, the prior art discloses matching the transaction identifier to a transaction buffer of the plurality of transaction buffers for the child link. Furthermore, since the bridge's transaction buffer stores the transaction, bridges routes messages among different buses, the prior art includes routing the transaction to the transaction buffer.

Referring to claim 24: The prior art discloses storing transaction buffer identifier (Application, page 2, line 3), which is receiving the transaction identifier on the

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child-link.

Referring to claim 25: Since the prior art discloses a one-to-one relationship between the bus and transaction order queue (Application, page 3, line 1), the message from the devices on that particular bus must match with its associated transaction order queue. Since each message of the PCI/PCI-X has an unique identifier and each device only matches to its associated transaction order queue, the prior art discloses matching the transaction identifier to a transaction buffer of the plurality of transaction buffers for the child link.

Referring to claim 26: The prior art discloses receiving a transaction on the grandchild-link (figure 1, structure 162) and sending transaction to the parent bridge. The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier. Hence, the prior art discloses originating and sending the transaction identifier to the parent-bridge. Thus, the claim is anticipated by the prior art.

Referring to claim 27: The prior art discloses that the transaction identifier is sent to the parent-bridge on a child-link (figure 1, structure 152).

Referring to claim 28: The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier. Since the sequence is one or more transactions associated with carrying out a single logical transfer by requester, and each transaction in the same sequence carries the same unique sequence ID, therefore, the transaction identifier/sequence ID is determined on which the transaction was received in order to complete a sequence.

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Referring to claim 29: The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and PCI protocol specifies each message to include a bus number (bits 16 to 23).

Referring to claim 30: The prior art discloses two separate grandchild links (figure 1, structure 162 and 164) connecting with a plurality of devices (figure 1, structures 12A-F). Thus, when each device under each grandchild link starts an upstream transaction, each one in the plurality of links is associated with at least two different transaction identifiers from two different devices attaching to it.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 10. Claims 1-11, 14, and 31-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of the admitted prior art and well-known practice in the computer art.

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Referring to claim 1: The prior art discloses a plurality of grandchild-links (figure 1, structures 162 and 164) for receiving a plurality of transactions; a child-link (figure 1, structure 152) for sending the plurality of transactions received by the plurality of grandchild-links; and the physical link between the level 2 bridge and the level 1 bridge is the claimed transaction identifier communication link (figure 1, structure 152) for sending a plurality of transaction identifiers associated with the plurality of transactions sent on the child-link. The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier.

The prior art does not disclose a plurality of transaction order queues associated with one child-link. An "Official Notice" is taken on the following: simply duplicate the essential working component is known in the computer art. The court has held that duplication of essential working parts of a device involves only routine skill in the art (MPEP 2144 and St. Regis Paper Co. v. Bemis Co., 193 USPQ 8). As Applicant stated, the St. Regis Paper Co. case states that each of the bags was taken as a complete unit and combined together for the known purpose of strengthening the entire bag structure (Remark, page 26, 3<sup>rd</sup> paragraph). As an analogy, the current Application's **claimed limitation** directs to multiply the existing transaction order queue, and multiplying the computer components for the purpose of strengthening and improving the entire general operation's capacity is a known practice, such as increasing the number of CPU or RAM.

Thus, it would have been obvious to one having ordinary skill in the computer art at the time Applicant made the invention to multiply the transaction order queues because both MPEP

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and the court have held that it only involves routine skill in the art to duplicate essential working parts.

Referring to claim 2: The hardware physically connecting the prior art's bridges and buses is the claimed transaction identifier communication link, which comprises the child-link.

Referring to claim 3: The admitted prior art discloses a transaction buffer (figure 1, structure 185) associated with the child-link.

Referring to claim 4: The prior art does not disclose a plurality of transaction buffer associated with one child-link. An "Official Notice" is taken on the following: simply duplicate the essential working component is known in the computer art. The court has held that duplication of essential working parts of a device involves only routine skill in the art (MPEP 2144 and St. Regis Paper Co. v. Bemis Co., 193 USPQ 8). As Applicant stated, the St. Regis Paper Co. case states that each of the bags was taken as a complete unit and combined together for the known purpose of strengthening the entire bag structure (Remark, page 26, 3<sup>rd</sup> paragraph). As an analogy, the current Application's claimed limitation directs to multiply the existing transaction order queue, and multiplying the computer components for the purpose of strengthening and improving the entire general operation's capacity is a known practice, such as increasing the number of CPU or RAM.

Referring to claim 5: The prior art discloses a plurality of channels (figure 1, structures 162 and 164); wherein at least one channel of the plurality of channels is used to receive the plurality of transaction identifiers (transactions from bus devices, figure 1, structures 110). Furthermore, the admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and the PCI protocol designates the message bits 16 to 23 for specifying the bus.

Referring to claim 6: The prior art discloses a plurality of child-links (figure 1, structure 150 and additional high speed links); An "Official Notice" is taken on the following: simply duplicate the essential working component is known in the computer art. The court has held that duplication of essential working parts of a device involves only routine skill in the art (MPEP 2144 and St. Regis Paper Co. v. Bemis Co., 193 USPQ 8). As Applicant stated, the St. Regis Paper Co. case states that each of the bags was taken as a complete unit and combined together for the known purpose of strengthening the entire bag structure (Remark, page 26, 3<sup>rd</sup> paragraph). As an analogy, the current Application's claimed limitation directs to multiply the existing transaction order queue, and multiplying the computer components for the purpose of strengthening and improving the entire general operation's capacity is a known practice, such as increasing the number of CPU or RAM.

Referring to claim 7: The prior art discloses a plurality of transaction buffers (figure 1, structures 180 and 182) for the child-link and for storing the transaction. The prior art discloses a one-to-one relationship between the buffer and transaction order queue (Application, page 3, line 1), and since the transaction order queue stores the identifiers, the prior art discloses matching the transaction identifier to a transaction buffer of the plurality of transaction buffers for the child link.

Referring to claim 8: The prior art discloses a one-to-one relationship between the buses and transaction order queues (Application, page 3, line 1). Hence, the means to associate one particular transaction order queue to one particular bus is equivalent to the claimed transaction order queue identifier.

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Referring to claim 9: The prior art discloses a plurality of transaction buffers (figure 1, structures 180 and 182) for the child-link and for storing the transaction. The prior art discloses a one-to-one relationship between the buffer and transaction order queue (Application, page 3, line 1), and since the transaction order queue stores the identifiers, the prior art discloses matching the transaction identifier to a transaction buffer of the plurality of transaction buffers for the child link. The prior art discloses that the transaction queue stores identifiers for certain transactions to ensure ordering rules (Application, page 2, lines 6-7), thus the routing behavior for those transactions without transaction order rule will be the default routing behavior.

Referring to claim 10: The prior art discloses bus-bridges.

Referring to claim 11: The prior art discloses a bridge-bridge.

Referring to claim 14: The prior art discloses that the child-bridge has a child-link, and the child-link has at least one channel for transmitting the plurality of transaction identifier.

Furthermore, the admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI protocol designates the message bits 16 to 23 for specifying the bus, which is the claimed plurality of channels.

Referring to claim 31: The prior art discloses a parent-bridge (figure 1, structure 149) including a child link (figure 1, structure 152); and a plurality of transaction order queues (figure 1, structures 142 and 144) connected to the child-link; and a child-bridge (figure 1, structure 139) connected via the child-link to the parent bridge and further comprising a plurality of grandchild-links (figure 1, structures 162 and 164).

The prior art does not disclose a plurality of transaction order queues associated with one child-link. An "Official Notice" is taken on the following: simply duplicate the essential

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working component is known in the computer art. The court has held that duplication of essential working parts of a device involves only routine skill in the art (MPEP 2144 and St. Regis Paper Co. v. Bemis Co., 193 USPQ 8). As Applicant stated, the St. Regis Paper Co. case states that each of the bags was taken as a complete unit and combined together for the known purpose of strengthening the entire bag structure (Remark, page 26, 3<sup>rd</sup> paragraph). As an analogy, the current Application's **claimed limitation** directs to multiply the existing transaction order queue, and multiplying the computer components for the purpose of strengthening and improving the entire general operation's capacity is a known practice, such as increasing the number of CPU or RAM.

Referring to claim 32: The prior art discloses a plurality of child-links to a plurality of child-bridges (figure 1, level 1).

Referring to claim 33: The prior art discloses that the child-bridge transmits a transaction to the parent bridge (figure 1, via the structure 152). The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier.

Referring to claim 34: Since the prior art discloses a one-to-one relationship between the bus and transaction order queue (Application, page 3, line 1), and the transaction order queue stores the identifiers, therefore, the prior art discloses matching the transaction identifier to a transaction queue of the plurality of transaction queue.

Referring to claim 35: The admitted prior art discloses a PCI and PCI-X protocols.

(Application, page 2, line 4), and the PCI protocol designates the message bits 16-23 for

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specifying bus number; thus, the admitted prior art discloses identifying a grandchild-link of the plurality of grandchild-links.

Referring to claim 36: The prior art discloses that the bridge routes the message to its designation (Application, page 1, paragraph 0003, lines 1-3).

Referring to claim 37: The prior art discloses the transaction buffer (figure 1, structures 180 and 186).

Referring to claim 38: The prior art discloses a plurality of transaction buffers (figure 1, structures 180, 182, and 186) connected to the child-link.

11. Claims 12-13 and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of the Hausauer and "PCI-to-PCI Bridge Architecture Specification" by PCISIG.

Referring to claim 12: Hausauer discloses a child link (figure 1, link between structures 18 and 20), and Hausauer's physical wire to establish the child link (the PCI connections) is the transaction identifier communication link. Hausauer discloses queues for storing a plurality of transactions (column 4, lines 29-52); the indexing/sorting means to track each transaction and to maintain its transaction ordering in the queue is equivalent to the transaction identifiers.

Hausauer discloses a grandchild link (figure 1, link among structures 20, 22, 24, and 26), but Hausauer does not disclose a plurality of grandchild links. Hausauer's bus is a PCI bus (figure 1, structures 16 and 19) and Hausauer's bridge is a PCI-to-PCI bridge (figure 1, structure 20); thus, Hausauer's invention is constructed under the PCI standard.

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PCI specification discloses a multi-bridge architecture (page 12), and a plurality of grandchild links (page 12, links between bridge 1 and bridges 2). The PCI specification teaches one to expand the peripheral connections with the multi-bridge architecture. Hence, it would have been obvious to one having ordinary skill in the computer art to adopt the multi-bridge/multi-link architecture onto Hausauer because the Hausauer constructs the invention with the PCI specification and the PCI specification explicitly discloses the application of the multi-bridge and multi-link architecture.

Referring to claim 13: The hardware physically connecting the Hausauer's bridges and buses is the claimed transaction identifier communication link, which comprises the child-link.

Referring to claim 15: The Hausauer discloses a plurality of transaction buffers (column 4, lines 29-31) for the child-link and for storing the transaction. A grandchild link is associated with a transaction identifier when the transaction is originated from or designated to a device connected via the grandchild link.

Referring to claim 16: The PCI spec discloses two separate grandchild links (page 12, figure 1-1) connecting with a plurality of devices. Thus, when each device under each grandchild link starts an upstream transaction, each one in the plurality of links is associated with at least two different transaction identifiers from two different devices attaching to it.

Referring to claim 17: The PCI spec discloses two separate grandchild links (page 12, figure 1-1) connecting with a plurality of devices. Thus, when one device under one grandchild link designates a transaction to another device under another grandchild link, the same transaction identifier is associated with both grandchild links.

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Referring to claim 18: The PCI spec discloses that the grandchild-link connects to a bus (page 12, figure 1-1).

Referring to claim 19: The PCI spec discloses that the grandchild-link is connected to a bus-bridge (page 12, figure 1-1).

Referring to claim 20: The PCI spec discloses a bridge-bridge (page 12, figure 1-1).

#### Response to Arguments

- 12. Applicant's arguments with respect to 35 USC 112 1<sup>st</sup> paragraph rejection have been fully considered and are persuasive. The 35 USC 112 1<sup>st</sup> paragraph rejections of claims 8 and 12-20 have been withdrawn.
- 13. In response to Applicant's argument that there is no prior art in the present application (Remark, page 17, 2<sup>nd</sup> paragraph, page 21, 2<sup>nd</sup> paragraph, lines 3-4): According to the Application, page 1, starting from paragraph 0002, Applicant admitted an existing practice of a modern computer system; furthermore, the existence of the system and its related structures and general operations upon which Applicant observes the existing system's deficiency (Application, page 2, 1<sup>st</sup> paragraph, last 4 lines). If Applicant is contending that the figure 1 with regard its general structures or general operations were not known as a prior art, Applicant is required to submit evidence to establish such for Examiner to consider.
- 14. In response to Applicant's argument that the alleged prior art does not disclose the transaction identifier (Remark, page 22, 2<sup>nd</sup> paragraph, lines 9, page 25, 3<sup>rd</sup> paragraph, lines 5-6): The admitted prior art discloses a PCI and PCI-X protocols (Application, page 2, line 4), and each PCI-X transaction has a sequence ID, which is the claimed transaction identifier.

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15. In response to Applicant's argument that the Examiner's conclusion of obviousness is based upon improper hindsight reasoning (Remark, page 24, and page 25, 1<sup>st</sup> paragraph, page 26, 3<sup>rd</sup> paragraph): It must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). Applicant argues that the St. Regis Paper Co. case states that each of the bags was taken as a complete unit and combined together for the known purpose of strengthening the entire bag structure (Remark, page 26, 3<sup>rd</sup> paragraph). As an analogy, the current Application's claimed limitation directs to multiply the existing transaction order queue, and multiplying the computer components for the purpose of strengthening and improving the entire general operation's capacity is a known practice, such as increasing the number of CPU or RAM.

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#### Conclusion

16. The prior art made of recorded, from both previous Office Action and current Office Action, and not relied upon is considered pertinent to applicant's disclosure.

"PCI-X Addendum to the PCI Local Bus Specification" by PCI Special Interest Group, 1999, Rev. 1.0: The specification discloses the sequence ID for each transaction (page 39, paragraphs 1-2).

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin I. King whose telephone number is 571-272-3628. The examiner can normally be reached on Monday through Friday, 9:00 am to 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571-272-3632 or on the central telephone number, (571) 272-2100. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lastly, paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign

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patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Justin King

January 28, 2005

MARK H. RINEHART
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100